

## Page 1 of 1

All amounts are calculated in domestic currency.

### System Types

<b>Total Received Quantity:</b>	25,000
<b>Total Qty to Inspect (PO U/M):</b>	0,000
<b>Total Reject Quantity:</b>	0,000
<b>Total Receipt Value:</b>	\$0.00
<b>Total Balance Due Quantity:</b>	24,000

INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3378732

<b>Ship From:</b> A. M. CASTLE & CO. 4175 ROYAL DRIVE SUITE 600 KENNESAW, GA 30144 USA		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b> 08-SEP-17		<b>F.O.B.</b> ORIGIN		<b>Freight Terms</b> Prepaid		<b>Carrier</b> ABF	
						<b>BOL No</b> 3378732-2	

**Shipment Details**

Order No	Line No	Item No	Description
4874155	1	752114.MO	1.2500.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 2.75 IN ( + .1250/- .0000 IN) X 144.5 IN ( + .1250/- .0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com
<b>Purchase Order No</b> 37615		<b>Part Number</b>	
		<b>Ordered Qty</b> 2.00 PCS	
		<b>Invoice Qty</b> 2.00 PCS	

**Details:**  
ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY  
ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S  
Email P/s and certs to: clavoie@dartaero.com  
END USER: DART AEROSPACE  
END USE: COMMERCIAL AIRCRAFT PARTS

<b>Delivery No.</b> 121300950	<b>Mill/Source</b> CONSTELLUM ROLLED PRODUCTS	<b>Heat Number</b> DAS 5 93823411	<b>Mech Id</b> 2	<b>PCS</b> 2	<b>Width (IN)</b>	<b>Length (IN)</b>	<b>Shipped Qty(LBS)</b> 102.8254
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INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 2 of 2

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

*Spil Chaneau*

Date:

Name:

SEP-27-18

B3-8-2

Constellium

Accredited  
**Nadcap**  
Materials Testing Laboratory

**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

SHIP TO


A M CASTLE &amp; COMPANY

4175 ROYAL DRIVE  
KENNESAW GA  
30144  
US

SOLD TO

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

A M CASTLE		110502703		4075		INCLUSION		Serial:20170220-0110502703		Pg 1of2	
CUSTOMER PURCHASE ORDER NO. & ITEM 410933						Constellium ORDER NO. 196570			<b>CERTIFICATION</b> "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA   Steve Good - Laboratory Manager		
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1.232 mm	LENGTH 144.50000 in 3.670 mm						
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH											
CUSTOMER SPECIFICATION AMS 4045K											
PART NUMBER 752114			B/L NUMBER 75896		DATE SHIPPED 02/21/2017						
WT. SHIPPED 2670.000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.							

## ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A  
 AMS QQ-A-250/12A  
 AMS-STD-2154A 2012 TYPE 1 CLASS A 100% SONIC MINUS DEADZONE  
 ASTM B209-14  
 BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE  
 CMMP025 REV U  
 CST1006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE  
 DPS 4 713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE  
 GAMP5 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE  
 PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

## Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001453411	890.000	403.697	9382341	01		
1001453411	890.000	403.697	9382341	02		
1001453411	890.000	403.697	9382341	03		

Lot: 9382341

DAS  
5  
9-89

Tensile - Room Temperature (US)

		Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	81.3	81.6	71.5	71.8	13.0	13.0	

# Constellium

Accredited  
**Nadcap**  
Materials Testing Laboratory

## CERTIFIED TEST REPORT

Constellium Rolled Products  
Ravenswood, LLC

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A M CASTLE & COMPANY

4175 ROYAL DRIVE  
KENNESAW GA  
30144  
US

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O

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

A M CASTLE 110502703 4075 INCLUSION Serial:20170220-0110502703 Pg 2of2

CUSTOMER PURCHASE ORDER NO. & ITEM  
410933

Constellium ORDER NO.  
196570

### CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."  
Constellium Rolled Products Ravenswood, LLC  
859 Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

ALLOY	CLAD	TEMPER	GAUGE	WIDTH	LENGTH
7075		T651	1.25000 in 31.75 mm	48.50000 in 1,232 mm	144.50000 in 3,670 mm

ITEM ORDERED  
SPEC PLATE SAWED  
MILL FINISH

CUSTOMER SPECIFICATION  
AMS 4045K

PART NUMBER	B/L NUMBER	DATE SHIPPED
752114	75896	02/21/2017

WT. SHIPPED	NO. OF PIECES	GOVT. CONTRACT NO.
2870.000 LB	000003	

Steve Good - Laboratory Manager

### Tensile - Room Temperature (SI)

		Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	561	563	493	495	13.0	13.0	

### Chemistry (Actual)

	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.06	0.17	1.52	0.03	2.58	0.21	5.58	0.04	0.01

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

QUALITY TEXTS:  
AMC CA 15403A R 7

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT

WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399

WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557

DUNS Number: 090570149; CAGE Code: 1YW19

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.

"END OF CERTIFICATION"

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 1707516S1.250X2.750  
 DATE: SEP 19 2017

PO / BATCH NO.: 0037615/M138532

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 24'  
 QUANTITY INSPECTED: 24'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250X2.750  
 THICKNESS RECEIVED: 1.230X2.85  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	AMS QQ-A 250/12
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	HT # 9382341
CORRECT MATERIAL IDENTIFICATION	(Y) N	707516S
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.  
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

<b>QC 18 INSPECTION</b>		<b>ENGINEERING SIGNOFF (if required)</b>
INSPECTED BY: <u>DAS</u> DATE: <u>SEP 19 2017</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

**PURCHASE MATERIAL:** 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

**SPECIFICATION:** QQ-A-250/12 OR AMS-QQ-A-250/12

OR AMS 4045  
OR ASTM B209

DAS

OR

**PURCHASE MATERIAL:** 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

**SPECIFICATION:** QQ-A-250/13 OR AMS-QQ-A-250/13  
OR AMS 4048 / 4049  
OR ASTM B209

**PART NUMBER:** M7075T6S | TTT | X | W.WWW |  
| THK | | WIDTH |

WHERE "TTT" = THICKNESS (IN INCHES)  
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063  
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

**PREFERRED SIZE:** .TTT BY 4FT BY 10FT FOR SHEET

RELEASED

2017 JUN 19  
ECN 17-574

APPROVED

B	ADD: REF TO PLATE: T651 TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CARB-149)	CP	17.05.05
A	NEW ISSUE	RF	10.11.08
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	CP		
CHECKED	ML		
MFG. APPR.	LL		
APPROVED	WM		
DE APPR.	DS		
DATE	17.05.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M7075T6S			
REV. B SHEET 1 OF 1			
TITLE 7075-T6 SHEET/PLATE SPEC NTS			
SCALE			
COPYRIGHT © 2010 BY DART AEROSPACE LTD			
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.			



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO37615**

Purchase Order Date 8/30/2017

PO Print Date 9/5/2017

Page Number 1 of 2

Order From :  
METAUX CASTLE  
P.O. BOX 4090 STN A  
TORONTO, ONTARIO M5W OE9  
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

E-MAILED

REVISED

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Diane Baker

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency USD

FOB Destination-Collect

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
Line Comments			Promise Date				
Delivery Comments							

1	M7075T6S1.250X2.750	M7075T6S1.250" X2.750" CUT FROM PLATE	9/13/2017		48.00	\$26.60	\$1,276.80
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Yes

9/13/2017

MAT'L 7075-T6/T62 ALUMINUM SHEET  
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET  
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

Rec'd 24 F.

Line Total: \$1,276.80

2	71401-45	PROCUREMENT QUALITY CLAUSES	9/13/2017		1.00	\$0.00	\$0.00
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No

9/13/2017

Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

Sent 9-18

Note:

9/5/2017





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

**Purchase Order ID** PO37615

**Purchase Order Date** 8/30/2017

**PO Print Date** 9/5/2017

**Page Number** 2 of 2

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**Order From :**

VU-MET002

METAUX CASTLE  
P.O. BOX 4090 STN A  
TORONTO, ONTARIO M5W OE9  
CANADA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

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**Contact Name**

**Vendor Phone**

**Ship To Contact**

**Ship To Phone**

**Ship Via:** Yours ppd

**Ship Acct:**

**Buyer**

Diane Baker

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

Destination-Collect

**Line Total:** \$0.00

**PO Total:** \$1,276.80

CL

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

**Change Nbr:** 3

**Change Date:** 9/5/2017

## Chantal Lavoie

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**From:** Desbiens, Marc <mdesbien@amcastle.com>  
**Sent:** Wednesday, August 30, 2017 11:24 AM  
**To:** Chantal Lavoie  
**Subject:** RE: QUOTE

Good Morning Chantal,

price an delivery on mat'l.

7075-t6 bar or plate 1.250" x 2.750" x 20 ft

w/t J-S + J-L

to order.

plate \$ 26.60 Ft (2 weeks)

Thanks

7075t6S

Marc Desbiens  
Inside sales representative  
Castle Metals, Montreal, QC  
Direct line 514-795-8176  
1-800-806-6660 ext 52226  
Fax # 1-855-892-6370  
*Customized Supply Chain Solutions for Your Metal Needs*

m7075t6S

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## Chantal Lavoie

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**From:** Jean Francois Sauve  
**Sent:** Tuesday, August 29, 2017 12:09 PM  
**To:** Chantal Lavoie  
**Subject:** Mat'l Require for 651.7500

Allo Chantal,

J'aurais besoin du mat'l suivant pour des nouvelle pièces que nous devons faire pour Apical.

- M7075T6S1.250X2.750 Qty. : 20 pieds min. \*\*\*en longueur de 10 ou 12 pied \*\*\*

Le mat'l est déjà dans le système sous M7075T6B1.250X2.750.

Peux-tu me confirmer lorsque se sera commandé svp.

Merci!  
**JEAN-FRANÇOIS SAUVÉ**  
Production Engineering Coordinator

DART AEROSPACE  
T 1 613 632-5200 > 237  
F 1 613 632-5246  
1 800 556- 4166  
[www.dartaerospace.com](http://www.dartaerospace.com)

*6061 T6 B1" X 16"  
x 8 ft*



*They now stock  
metals castle.*